

APPENDIX M

Soil Survey Geographic (SSURGO)

Soil Mapping Units and Characteristics of BLM Lands (by Soil Survey Area)

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site	Soil Map Unit Acres
BLAINE COUNTY - SSA 608								
1 ABSHER NOBE		0 - 4				Dense clay, 10-14 in. Ppt* zone, glaciated plains, central		19
2 ASSINNIBOINE		0 - 4	X			Saline upland, 10-14 in. Ppt zone, glaciated plains, central		135
3 ATTEWAN		0 - 4			X ³	Sandy, 10-14 in. Ppt zone, glaciated plains, central		34
6 BADLAND ¹		35 - 70	X			Silty, 10-14 in. Ppt zone, glaciated plains, central		33,639
11 BASCOVY		2 - 6				Clayey, 10-14 in. Ppt zone, sedimentary plains, central		2,848
12 BASCOVY		2 - 8				Clayey, 10-14 in. Ppt zone, sedimentary plains, central		2,272
LISAM		4 - 8				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		
DILTS		4 - 8				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		
19 BENZ		0 - 4				Saline upland, 10-14 in. Ppt zone, sedimentary plains, central		288
25 CABBART		8 - 35	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central		
DELPOINT		8 - 15				Silty, 10-14 in. Ppt zone, sedimentary plains, central		1,371
27 CABBART		25 - 60	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central		
ROCK OUTCROP ¹								16,597
28 CABBART YAMAC		15 - 60	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central		
YAMAC		15 - 25	X			Thin silty, 10-14 in. Ppt zone, sedimentary plains, central		
ROCK OUTCROP ¹								15
36 CREED		0 - 4				Silty, 10-14 in. Ppt zone, sedimentary plains, central		
GERDRUM		0 - 4				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central		46
38 DELPOINT		2 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central		
CABBART		2 - 8				Shallow, 10-14 in. Ppt zone, sedimentary plains, central		291
39 DIMMICK CLAY		0 - 1	X			Wet meadow, 10-14 in. Ppt zone, glaciated plains, central		
41 ETHRIDGE		0 - 4				Silty, 10-14 in. Ppt zone, glaciated plains, central		6
47 GLENDALE		0 - 2	X			Sandy, 10-14 in. Ppt zone, glaciated plains, central		1
48 HANLY		0 - 4	X			Sands, 10-14 in. Ppt zone, glaciated plains, central		1
55 HAVER		0 - 2				Silty, 10-14 in. Ppt zone, sedimentary plains, central		65
56 HAVER		0 - 2				Silty, 10-14 in. Ppt zone, glaciated plains, central		1
59 HAVER		0 - 2				Overflow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		
HANLY		0 - 2	X			Overflow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		
GLENDALE		0 - 2	X			Overflow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		
65 HEDGES		15 - 45	X			Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		
BELAIN		25 - 60	X			Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		33
CASTNER		25 - 60	X			Thin silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central		
79 LISAM		8 - 35	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		18,870
DILTS		8 - 35	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		
80 LISAM		25 - 45	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		
DILTS		25 - 45	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central		
ROCK OUTCROP ¹								64,269

* Ppt = Precipitation

1. Miscellaneous area. Rock outcrop = areas of exposed bedrock.

2. All areas are prime farmland.

3. Prime farmland if irrigated.

4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Prime Farmland Soil	Ecological Site		Soil Map Unit Acres
						Shallow, 10-14 in. Ppt zone, glaciated plains, central	Shallow to gravel, 10-14 in. Ppt zone, glaciated plains, central	
82 LISAM		25 - 45	X			Silty, 10-14 in. Ppt zone, glaciated plains, central	Silty, 10-14 in. Ppt zone, glaciated plains, central	93
85 WABEK		15 - 35	X			Silty, 10-14 in. Ppt zone, glaciated plains, central	Silty, 10-14 in. Ppt zone, glaciated plains, central	205
85 MARMARTH		2 - 8				Shallow, 10-14 in. Ppt zone, glaciated plains, central	Shallow, 10-14 in. Ppt zone, glaciated plains, central	194
88 CABBART		2 - 8				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	Clayey, 10-14 in. Ppt zone, sedimentary plains, central	3,951
88 MARVAN		0 - 4				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
89 MARVAN		2 - 8				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
89 BASCOVY		2 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central	Silty, 10-14 in. Ppt zone, sedimentary plains, central	
111 SHAAK		0 - 4				Silty, 10-14 in. Ppt zone, sedimentary plains, central	Silty, 10-14 in. Ppt zone, sedimentary plains, central	325
112 SHAAK		0 - 4				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	106
GERDRUM		0 - 4				Sandy, 10-14 in. Ppt zone, sedimentary plains, central	Sandy, 10-14 in. Ppt zone, sedimentary plains, central	
127 TWILIGHT		4 - 8	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	Shallow, 10-14 in. Ppt zone, sedimentary plains, central	117
RIEDEL		4 - 8	X			Sandy, 10-14 in. Ppt zone, sedimentary plains, central	Sandy, 10-14 in. Ppt zone, sedimentary plains, central	
128 TWILIGHT		8 - 15	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	Shallow, 10-14 in. Ppt zone, sedimentary plains, central	104
RIEDEL		8 - 20	X			Subirrigated, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	Subirrigated, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
131 USTIC TORRIFLUVENT\$		0 - 4				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	2
132 VANDA		0 - 2				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	27
134 VANDA		2 - 8				Sedimentary upland, 10-14 in. Ppt zone, sedimentary plains, central	Sedimentary upland, 10-14 in. Ppt zone, sedimentary plains, central	7
NOBE		2 - 8				Shallow to gravel, 10-14 in. Ppt zone, sedimentary plains, central	Shallow to gravel, 10-14 in. Ppt zone, sedimentary plains, central	23
137 WABEK		8 - 35	X			Silty, 10-14 in. Ppt zone, sedimentary plains, central	Silty, 10-14 in. Ppt zone, sedimentary plains, central	73
147 YAMAC		2 - 4				Silty, 10-14 in. Ppt zone, sedimentary plains, central	Silty, 10-14 in. Ppt zone, sedimentary plains, central	
148 YAMAC		0 - 4				Saline upland, 10-14 in. Ppt zone, sedimentary plains, central	Saline upland, 10-14 in. Ppt zone, sedimentary plains, central	2,651
BENZ		0 - 4				Silty, 10-14 in. Ppt zone, sedimentary plains, central	Silty, 10-14 in. Ppt zone, sedimentary plains, central	
149 YAMAC		15 - 25	X			Shallow to gravel, 10-14 in. Ppt zone, sedimentary plains, central	Shallow to gravel, 10-14 in. Ppt zone, sedimentary plains, central	2
WABEK		25 - 45	X					

CHOUTEAU COUNTY - SSA 615								
15E LAMBETH	8 - 25	X				Thin silty, 10-14 in. Ppt zone, glaciated plains, north	Thin silty, 10-14 in. Ppt zone, glaciated plains, north	88
15F LAMBETH	25 - 70	X				Thin silty, 10-14 in. Ppt zone, glaciated plains, north	Thin silty, 10-14 in. Ppt zone, glaciated plains, north	918
16B DEGRAND	0 - 4				X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	2
21E CABBART	8 - 25	X				Shallow, 10-14 in. Ppt zone, glaciated plains, north	Shallow, 10-14 in. Ppt zone, glaciated plains, north	
DELPONT	8 - 25	X				Thin silty, 10-14 in. Ppt zone, glaciated plains, north	Thin silty, 10-14 in. Ppt zone, glaciated plains, north	71
22F HILLON	25 - 60	X				Thin silty, 10-14 in. Ppt zone, glaciated plains, north	Thin silty, 10-14 in. Ppt zone, glaciated plains, north	182
27B ATTENMAN	0 - 4				X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	2
28 NISHON	0 - 1			X	X ⁴	Overflow, 10-14 in. Ppt zone, glaciated plains, north	Overflow, 10-14 in. Ppt zone, glaciated plains, north	15
30B MARVAN	0 - 4					Clayey, 10-14 in. Ppt zone, glaciated plains, north	Clayey, 10-14 in. Ppt zone, glaciated plains, north	163
30C MARVAN	4 - 8					Clayey, 10-14 in. Ppt zone, glaciated plains, north	Clayey, 10-14 in. Ppt zone, glaciated plains, north	92
32B KOBASE	0 - 4					Clayey, 10-14 in. Ppt zone, glaciated plains, north	Clayey, 10-14 in. Ppt zone, glaciated plains, north	1
32D KOBASE	4 - 8					Clayey, 10-14 in. Ppt zone, glaciated plains, north	Clayey, 10-14 in. Ppt zone, glaciated plains, north	56
33A PHILLIPS	4 - 8					Shaly, 10-14 in. Ppt zone, glaciated plains, north	Shaly, 10-14 in. Ppt zone, glaciated plains, north	4

* Ppt = Precipitation

1. Miscellaneous area. Rock outcrop = areas of exposed bedrock.

2. All areas are prime farmland.

3. Prime farmland if irrigated.

4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Farm land Soil	Soil Map Unit Acres
35B ASSINNIBOINE		0 - 4	X	X		Sandy, 10-14 in. Ppt zone, glaciated plains, north	31
36B CHINOOK		0 - 4	X	X		Sandy, 10-14 in. Ppt zone, glaciated plains, north	110
36C CHINOOK		4 - 8	X	X		Sandy, 10-14 in. Ppt zone, glaciated plains, north	73
37B EVANSTON		0 - 4			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	295
37C EVANSTON		4 - 8			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	221
38B ETHRIDGE		0 - 4			X ³	Clayey, 10-14 in. Ppt zone, glaciated plains, north	349
39B ASSINNIBOINE		0 - 4			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	22
48A VANDA		0 - 2				Dense clay, 10-14 in. Ppt zone, glaciated plains, north	13
48C VANDA		2 - 8				Dense clay, 10-14 in. Ppt zone, glaciated plains, north	78
55B LIHEN		0 - 6	X			Sands, 10-14 in. Ppt zone, glaciated plains, north	13
58B LONNA		0 - 4				Clayey, 10-14 in. Ppt zone, glaciated plains, north	9
58C LONNA		4 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, north	38
60A HARDE		0 - 2			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	212
73B YETULL		0 - 6	X			Sands, 10-14 in. Ppt zone, glaciated plains, north	13
LONESOME		0 - 6	X			Sands, 10-14 in. Ppt zone, glaciated plains, north	
77F TINSLEY		15 - 45	X			Gravel, 10-14 in. Ppt zone, glaciated plains, north	1
79B YAMACALL		0 - 4			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	205
79C YAMACALL		4 - 8				Silty, 10-14 in. Ppt zone, glaciated plains, north	639
79D YAMACALL		8 - 15				Silty, 10-14 in. Ppt zone, glaciated plains, north	175
81A GLENDAVE		0 - 2	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	156
90A HARLAKE		0 - 1				Clayey, 10-14 in. Ppt zone, glaciated plains, north	52
93F YETULL		15 - 45	X			Thin sandy, 10-14 in. Ppt zone, glaciated plains, north	256
94B BUSBY		0 - 4	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	25
94C BUSBY		4 - 8	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	240
94D BUSBY		8 - 15	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	292
96B MACAR		0 - 4			X ³	Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	33
98B KREMLIN		0 - 4			X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	188
98C KREMLIN		4 - 8				Silty, 10-14 in. Ppt zone, glaciated plains, north	98
99 RIVRA		0 - 2	X			Greater than 10% canopy cover of deciduous trees	191
HANLY		0 - 2	X			Greater than 10% canopy cover of deciduous trees	
141B MEGONOT		0 - 4				Clayey, 10-14 in. Ppt zone, glaciated plains, north	
WEINGART		0 - 2				Clay pan, 10-14 in. Ppt zone, glaciated plains, north	28
DELPOINT		0 - 4				Silty, 10-14 in. Ppt zone, glaciated plains, north	
142C MEGONOT		2 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, north	
KOBASE		2 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, north	
DELPOINT		2 - 8				Silty, 10-14 in. Ppt zone, glaciated plains, north	
200 BADLAND ¹			X				2,293
211F CABBART		25 - 70	X			Shallow, 10-14 in. Ppt zone, glaciated plains, north	
YAWDIN		25 - 70	X			Shallow clay, 10-14 in. Ppt zone, glaciated plains, north	
ROCK OUTCROP ¹							10,920

* Ppt = Precipitation

1. Miscellaneous area.

2. All areas are prime farmland.

3. Prime farmland if irrigated.

4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site	Soil Map Unit Acres
212F CABBART		25 - 70	X			Shallow,	10-14 in. Ppt zone, glaciated plains, north	119
221E HILLON		25 - 70	X			Thin silty,	10-14 in. Ppt zone, glaciated plains, north	
221E HILLON		8 - 25	X			Thin silty,	10-14 in. Ppt zone, glaciated plains, north	3
224E KEVIN		8 - 15				Silty,	10-14 in. Ppt zone, glaciated plains, north	
224E HILLON		8 - 25	X			Thin silty,	10-14 in. Ppt zone, glaciated plains, north	
JOPLIN		8 - 15				Silty,	10-14 in. Ppt zone, glaciated plains, north	1
227F HILLON		25 - 70	X			Thin silty,	10-14 in. Ppt zone, glaciated plains, north	
FLEAK		25 - 70	X	X		Shallow,	10-14 in. Ppt zone, glaciated plains, north	40
ROCKOUTCROP ¹								
251E BASCOVY		2 - 8				Thin clayey,	10-14 in. Ppt zone, glaciated plains, north	
NELDORE		2 - 8				Shallow clay,	10-14 in. Ppt zone, glaciated plains, north	
252C BASCOVY		2 - 8				Clayey,	10-14 in. Ppt zone, glaciated plains, north	785
MARVAN		2 - 4				Clayey,	10-14 in. Ppt zone, glaciated plains, north	58
272C ATTewan		2 - 4				Silty,	10-14 in. Ppt zone, glaciated plains, north	
TINSLEY		2 - 8	X			Gravel,	10-14 in. Ppt zone, glaciated plains, north	23
301A MARVAN		0 - 2				Clayey,	10-14 in. Ppt zone, glaciated plains, north	
VANDA		0 - 2				Dense clay,	10-14 in. Ppt zone, glaciated plains, north	
301C MARVAN		2 - 8				Clayey,	10-14 in. Ppt zone, glaciated plains, north	40
VANDA		2 - 8				Dense clay,	10-14 in. Ppt zone, glaciated plains, north	126
311B FIRD		0 - 4				Silty,	10-14 in. Ppt zone, glaciated plains, north	
CREED		0 - 4				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	40
GERDRUM		0 - 4				Silty,	10-14 in. Ppt zone, glaciated plains, north	
311C FIRD		4 - 8				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	58
CREED		4 - 8				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	
GERDRUM		4 - 8				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	
331B PHILLIPS		0 - 4				Silty,	10-14 in. Ppt zone, glaciated plains, north	71
ELLOAM		0 - 4				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	
331C PHILLIPS		4 - 8				Silty,	10-14 in. Ppt zone, glaciated plains, north	60
ELLOAM		4 - 8				Clay pan,	10-14 in. Ppt zone, glaciated plains, north	
361B FORTBENTON		0 - 4	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	8
362C CHINOOK		2 - 10	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	
YETULL		2 - 10	X			Sands,	10-14 in. Ppt zone, glaciated plains, north	19
363B COZBERG		2 - 10	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	18
CHINOOK		2 - 10	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	
363C CHINOOK		0 - 4	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	86
LIHEN		0 - 4	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	
364B CHINOOK		0 - 4			X ³	Silty,	10-14 in. Ppt zone, glaciated plains, north	193
365B FORTBENTON		0 - 6	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	129
CHINOOK		0 - 6	X			Sandy,	10-14 in. Ppt zone, glaciated plains, north	
372C EVANSTON		2 - 8				Silty,	10-14 in. Ppt zone, glaciated plains, north	11
YAMACALL		2 - 8				Silty,	10-14 in. Ppt zone, glaciated plains, north	

* Ppt = Precipitation
1. Miscellaneous area.

2. All areas are prime farmland.

3. Prime farmland if irrigated.

4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Severe Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site		Soil Map Unit Acres
								Silty, 10-14 in. Ppt zone, glaciated plains, north	Shallow, 10-14 in. Ppt zone, glaciated plains, north	
375B LONNA	EVANSTON	0 - 4						Silty, 10-14 in. Ppt zone, glaciated plains, north	Shallow, 10-14 in. Ppt zone, glaciated plains, north	17
410 ROCK OUTCROP ¹	FLEAK	25 - 70	X	X				Silty, 10-14 in. Ppt zone, glaciated plains, north	Shallow, 10-14 in. Ppt zone, glaciated plains, north	578
421C JOPLIN	HILLON	2 - 8						Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	42
422C MARMARTH	HILLON	2 - 8						Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	37
441C KEVIN	HILLON	2 - 8						Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	10
442C KEVIN	ELLOAM	2 - 8						Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	72
460 LACEY CREEK	TELSTAD	8 - 25						Clay pan, 10-14 in. Ppt zone, glaciated plains, north	Clay pan, 10-14 in. Ppt zone, glaciated plains, north	25
503B TELSTAD	JOPLIN	0 - 4						Greater than 10% canopy cover of deciduous trees	Silty, 10-14 in. Ppt zone, glaciated plains, north	117
	JOPLIN	0 - 4						X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	
	JOPLIN	4 - 8						X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	
521B THOENY	ELLOAM	0 - 4						Silty, 10-14 in. Ppt zone, glaciated plains, north	Dense clay, 10-14 in. Ppt zone, glaciated plains, north	96
	ABSHER	0 - 4						X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	
561B SCOBERRY	KEVIN	4 - 8						Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	70
561C SCOBERRY	KEVIN	4 - 8						X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	
601A HAVRE	GLENDIVE	0 - 1		X				Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	1
602A HAVRE	GLENDIVE	0 - 1		X				Sandy, 10-14 in. Ppt zone, glaciated plains, north	Sandy, 10-14 in. Ppt zone, glaciated plains, north	47
603A HAVRE	YAMACALL	0 - 2		X				X ³	Clayey, 10-14 in. Ppt zone, glaciated plains, north	
	HAVRE	0 - 2		X				X ³	Silty, 10-14 in. Ppt zone, glaciated plains, north	
	HAVRE	2 - 8		X				Silty, 10-14 in. Ppt zone, glaciated plains, north	Silty, 10-14 in. Ppt zone, glaciated plains, north	98
605C HAVRE	TWILIGHT	0 - 2		X					Greater than 10% canopy cover of deciduous trees	827
653F FLEAK	TWILIGHT	25 - 70	X	X					Greater than 10% canopy cover of deciduous trees	466
	YETULL	25 - 45	X	X					Overflow, 10-14 in. Ppt zone, glaciated plains, north	29
654F FLEAK	TWILIGHT	25 - 70	X	X					Shallow, 10-14 in. Ppt zone, glaciated plains, north	417
	YETULL	25 - 45	X	X					Thin sandy, 10-14 in. Ppt zone, glaciated plains, north	1,112
	ROCK OUTCROP ¹								Thin sandy, 10-14 in. Ppt zone, sedimentary plains, central	479
661E TWILIGHT	FLEAK	8 - 25	X	X					Sands, 10-14 in. Ppt zone, glaciated plains, north	13
	YETULL	8 - 25	X	X					Sands, 10-14 in. Ppt zone, glaciated plains, north	
	DUNE LAND ¹	15 - 45	X	X						

* Ppt = Precipitation
1. Miscellaneous area. Rock outcrop = areas of exposed bedrock.

1. Miscellaneous areas: Rock outcrop - unless it expresses bedrock.

2. All areas are prime farmland.

3. Prime farmland if irrigated.

4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Severe Erosion Hazard	Prime Farmland Soil	Map Unit Acres
793B YAMACALL		6 - 4				Clayey, 10-14 in. Ppt zone, glaciated plains, north	165
793C YAMACALL		4 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, north	75
795C YAMACALL		2 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, north	
BENZ		2 - 8				Saline upland, 10-14 in. Ppt zone, glaciated plains, north	150
795D YAMACALL		8 - 15				Clayey, 10-14 in. Ppt zone, glaciated plains, north	
BENZ		8 - 15				Saline upland, 10-14 in. Ppt zone, glaciated plains, north	13
892F WHITFLASH		25 - 60	X			Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
BELAIN		25 - 45	X			Silty, steep, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	36
ROCK OUTCROP ¹							
925F SUNBURST		25 - 70	X			Thin clayey, 10-14 in. Ppt zone, glaciated plains, north	
LAMBETH		25 - 70	X			Thin silty, 10-14 in. Ppt zone, glaciated plains, north	189
941D BUSBY		4 - 15	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	
TWILIGHT		8 - 15	X			Sandy, 10-14 in. Ppt zone, glaciated plains, north	79
971F NELDORE		25 - 60	X			Shallow clay, 10-14 in. Ppt zone, glaciated plains, north	
BASCOVY		25 - 45	X			Thin clayey, 10-14 in. Ppt zone, glaciated plains, north	8,016
972F NELDORE		25 - 70	X			Shallow clay, 10-14 in. Ppt zone, glaciated plains, north	
ROCK OUTCROP ¹						Shallow clay, 10-14 in. Ppt zone, glaciated plains, north	5,387
974F NELDORE		25 - 70	X			Shallow clay, 10-14 in. Ppt zone, glaciated plains, north	
HILLON		25 - 70	X			Thin silty, 10-14 in. Ppt zone, glaciated plains, north	
							846
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3 ABOR		15 - 45	X			Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
THEBO		15 - 45	X			Clayey, 10-14 in. Ppt zone, sedimentary plains, central	914
CRAGO		15 - 45	X			Silty, limy, 10-14 in. Ppt zone, sedimentary plains, central	
4 ABOR		4 - 15				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	56
YANDIM		4 - 15				Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
ASHUELOT VAR.		0 - 4				Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
CRAGO		0 - 4				Silty, limy, 10-14 in. Ppt zone, sedimentary plains, central	2
37 CABBA		4 - 8				Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
DONEY		4 - 8				Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	4
WAYDEN		4 - 8				Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
51 CREEED		0 - 2				Silty, 10-14 in. Ppt zone, sedimentary plains, central	38
GERDRUM		0 - 2				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
52 CREEED		2 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central	
GERDRUM		2 - 8				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	8
55 DANVERS		0 - 2			X ²	Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	3
DELPOINT		4 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central	
YANDIM		4 - 8				Shallow, 10-14 in. Ppt zone, sedimentary plains, central	78

- * Ppt = Precipitation
- 1. Miscellaneous area. Rock outcrop = areas of exposed bedrock.
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- 3. Prime farmland if irrigated.
- 4. Prime farmland if drained.

Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site	Soil Map Unit Acres
64 DILTS		15 - 50	X				Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	41,107
64 JULIN		15 - 25	X				Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
65 DILTS	ROCK OUTCROP ¹	4 - 50	X				Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
65 THEBO		4 - 45	X				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	4,921
65 NELDORF		4 - 60	X				Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
67 DONNEY		15 - 60	X				Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	161
68 WAYDEN		15 - 50	X				Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
68 DONNEY		8 - 15					Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	1
69 WINDHAM		8 - 15					Silty, limy, 15-19 in. Ppt zone, northern Rocky Mtn. valleys, central	
69 DONNEY		15 - 45	X				Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	67
70 WINDHAM		25 - 45	X				Silty, limy, 15-19 in. Ppt zone, northern Rocky Mtn. valleys, central	
75 DOUGHTY		0 - 2					Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	26
80 SIPPLE							Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
80 ELTSAC		8 - 25	X				Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	1
80 NORBER		8 - 25	X				Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
82 ENBAR		0 - 2				X ²	Subirrigated, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	92
87 ETHRIDGE		0 - 2				X ³	Clayey, 10-14 in. Ppt zone, sedimentary plains, central	13
88 ETHRIDGE		2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	194
90 EVANSTON		0 - 2					Silty, 10-14 in. Ppt zone, sedimentary plains, central	34
91 EVANSTON		2 - 8					Silty, 10-14 in. Ppt zone, sedimentary plains, central	40
97 FARNUF		0 - 4				X ²	Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	16
103 FLASHER		25 - 35	X	X			Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
TALLY		25 - 45	X	X			Sandy, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	81
ROCK OUTCROP ¹								
104 FLOWEREED		2 - 8					Silty, 10-14 in. Ppt zone, sedimentary plains, central	204
111 GERDRUM		0 - 4					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	325
112 GERDRUM		0 - 2					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	107
ABSHIER		0 - 2					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
113 GERDRUM		2 - 8					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	265
ABSHIER		2 - 8					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
115 HARLEM		0 - 2				X ³	Overflow, 10-14 in. Ppt zone, sedimentary plains, central	124
116 HAIRE		0 - 2					Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	134
117 HAIRE		0 - 2					Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	261
118 HAIRE		0 - 2					Overflow, 10-14 in. Ppt zone, sedimentary plains, central	4,969
HARLEM		0 - 2					Overflow, 10-14 in. Ppt zone, sedimentary plains, central	
141 KOBAR		2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	1,052
142 KOBAR		2 - 25					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	1,778
KORCHEA		0 - 2					Silty, 20+ in. Ppt zone, northern Rocky Mtn. foothills, central	
FRAZER		0 - 2					Overflow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	94

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Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site	Soil Map Unit Acres
146 LAWNTHER		4 - 8					Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	1
160 MARIAS		0 - 2					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	31
161 MARIAS		2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	177
162 MARMARTH		2 - 8					Silty, 10-14 in. Ppt zone, sedimentary plains, central	26
163 MARMARTH		4 - 8					Silty, 10-14 in. Ppt zone, sedimentary plains, central	328
CABBART		4 - 8					Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
165 MARTINSDALE		4 - 8					Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	13
JUDITH		4 - 8					Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
174 NELDORE		4 - 25	X				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	6,261
THEBO		4 - 25	X				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
175 NELDORE		25 - 60	X				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
THEBO		25 - 45	X				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	6,907
176 NELDORE		15 - 60	X				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
ROCK OUTCROP ¹								23,073
178 NESDA		0 - 2					Greater than 10% canopy cover of deciduous trees	77
SUDWORTH		0 - 2					Greater than 10% canopy cover of deciduous trees	
182 PENDROY		0 - 4					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	158
190 ROCK OUTCROP ¹								17,212
199 SHAMBO		0 - 2			X ²		Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	5
200 SHAMBO		2 - 8		X	X		Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	23
215 TALLY		2 - 8		X	X		Sandy, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	63
216 TALLY		4 - 25	X	X	X		Sandy, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	1
FLASHER		8 - 25	X	X	X		Shallow, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
221 TAMANEEN		2 - 4			X ³		Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	2
JUDITH		2 - 4			X ³		Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
222 TANNA		0 - 4			X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	8
223 TANNA		2 - 8			X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
ABOR		2 - 8			X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	140
233 THEBO		2 - 8			X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
234 THEBO		8 - 25	X		X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	326
235 THEBO		4 - 15			X ³		Clayey, 10-14 in. Ppt zone, sedimentary plains, central	2,774
WEINGART		4 - 8			X ³		Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
ABSHER		4 - 8			X ³		Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	1,846
252 VANDA		0 - 8			X ³		Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	151
253 VANDA		0 - 4			X ³		Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
NOBE		0 - 4			X ³		Saline upland, 10-14 in. Ppt zone, sedimentary plains, central	220
275 WINIFRED		15 - 45	X		X ³		Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
WINDHAM		15 - 45	X		X ³		Silty, limy, 15-19 in. Ppt zone, northern Rocky Mtn. valleys, central	
ELTSAC		15 - 45	X		X ³		Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	45

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Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Soil Map Unit Acres
277 WORK		2 - 8				Silty, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	9
278 YAMAC		2 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central	587
279 DELPOINT		4 - 25	X			Silty, 10-14 in. Ppt zone, sedimentary plains, central	2,583
	YANDIM	4 - 25	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
281 YANDIM		8 - 50	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
	ABOR	8 - 45	X			Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	RENTSAC	8 - 60	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
282 YANDIM		25 - 50	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
	DELPOINT	25 - 45	X			Silty, 10-14 in. Ppt zone, sedimentary plains, central	
	ROCK OUTCROP ¹					Silty, 10-14 in. Ppt zone, sedimentary plains, central	9,065

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30A MARVAN	0 - 2					Clayey, 10-14 in. Ppt zone, glaciated plains, central	126
37C EVANSTON	4 - 8					Silty, 10-14 in. Ppt zone, glaciated plains, central	17
81A GLENDALE	0 - 2					Silty, 10-14 in. Ppt zone, glaciated plains, central	156
101E BARKOF	8 - 25					Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
	WINDHAM	8 - 25				Silty, limy, 15-19 in. Ppt zone, northern Rocky Mtn. valleys, central	40
241B BENZ	0 - 4					Saline upland, 10-14 in. Ppt zone, glaciated plains, central	
	VANDA	0 - 4				Dense clay, 10-14 in. Ppt zone, glaciated plains, central	
250E BASCOVY	8 - 25	X				Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	NELDORE	8 - 25	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
	WEINGART	8 - 15				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
251C BASCOVY	2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	NELDORE	2 - 8				Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
301C MARVAN, SALINE	2 - 8					Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
	MARVAN	2 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, central	
302B MARVAN, SALINE	0 - 8					Dense clay, 10-14 in. Ppt zone, glaciated plains, central	
	VANDA	0 - 8				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
322C KOBASE	2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	MEGONOT	2 - 8				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
392B CREEED	0 - 4					Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
	GERDRUM	0 - 4				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
521B ELLOAM	0 - 4					Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
	ABSHER	0 - 4				Dense clay, 10-14 in. Ppt zone, sedimentary plains, central	
563C SCOEY	2 - 8					Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	KEVIN	2 - 8				Silty, 10-14 in. Ppt zone, sedimentary plains, central	
601A HAVRE	0 - 2					Silty, 10-14 in. Ppt zone, sedimentary plains, central	
	HARLAK	0 - 2				Clayey, 10-14 in. Ppt zone, sedimentary plains, central	
	GLENDALE	0 - 2				Silty, 10-14 in. Ppt zone, sedimentary plains, central	
792C YAMACALL	2 - 8					Silty, 10-14 in. Ppt zone, sedimentary plains, central	
	TAMANEEN	0 - 4				Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	
871B DANVERS	0 - 4					Clayey, 15-19 in. Ppt zone, northern Rocky Mtn. foothills, central	6

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Soil Map Unit Symbol	Major Soil Series	Slope Range (%)	Severe Water Erosion Hazard	Severe Wind Erosion Hazard	Hydric Soil	Prime Farmland Soil	Ecological Site
925C SUNBURST	BASCOVY	2 - 8				Clayey, 10-14 in. Ppt zone, glaciated plains, central	557
	WEINGART	2 - 8				Dense clay, 10-14 in. Ppt zone, glaciated plains, central	
973E NELDORE, COOL		8 - 35	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	223
	BASCOVY	8 - 35	X			Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	
1021E CABBART		8 - 35	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	2,242
	TWILIGHT	8 - 35	X			Sandy-Sleep, 10-14 in. Ppt zone, sedimentary plains, central	
	YAWDIM	8 - 35	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
1052B ELLOAM		0 - 6				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	152
	THOENY	0 - 6				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
1059E WEINGART		4 - 15				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
	VAEDA	4 - 8				Dense clay, 10-14 in. Ppt zone, glaciated plains, central	50
	BASCOVY	4 - 25	X			Thin clayey, 10-14 in. Ppt zone, glaciated plains, central	
1066D TWILIGHT		4 - 15	X			Sandy, 10-14 in. Ppt zone, sedimentary plains, central	
	CABBART	4 - 15				Shallow, 10-14 in. Ppt zone, sedimentary plains, central	
	MARMARTH	4 - 15				Silty, 10-14 in. Ppt zone, sedimentary plains, central	
1090B HARLAKE		0 - 2				Clayey, 10-14 in. Ppt zone, glaciated plains, central	
	MARVAN	0 - 4				Clayey, 10-14 in. Ppt zone, glaciated plains, central	1,531
1251E NELDORE		8 - 35	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
	BASCOVY	8 - 35	X			Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	
1392B GERDRUM		0 - 4				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
	ABSHER	0 - 4				Clay pan, 10-14 in. Ppt zone, glaciated plains, central	
1400F ROCK OUTCROP ¹						Dense clay, 10-14 in. Ppt zone, glaciated plains, central	495
	ARSITE	8 - 60	X				
1920F SUNBURST		15 - 45	X			Saline upland, 10-14 in. Ppt zone, sedimentary plains, central	2,066
	NELDORE	15 - 45	X			Thin clayey, 10-14 in. Ppt zone, glaciated plains, central	
1970F NELDORE		8 - 60	X			Shallow clay, 10-14 in. Ppt zone, glaciated plains, central	868
	BASCOVY	8 - 45	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
	ROCK OUTCROP ¹					Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	
1971F YAWDIM		25 - 70	X			Shallow clay, 10-14 in. Ppt zone, sedimentary plains, central	
	CABBART	25 - 70	X			Shallow, 10-14 in. Ppt zone, sedimentary plains, central	6,791
	ROCK OUTCROP ¹						
1973F NELDORE, MOIST		15 - 60	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	16,543
	NELDORE	15 - 60	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
	ROCK OUTCROP ¹					Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
1976F NELDORE		15 - 60	X			Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	4,700
	PINEBREAKS	15 - 45	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
	BASCOVY	15 - 45	X			Thin clayey, 10-14 in. Ppt zone, sedimentary plains, central	
1977F VOLBORG		15 - 60	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	
	PINEBREAKS	15 - 45	X			Greater than 10% canopy cover (coniferous), 10-14 in. Ppt zone, sedimentary plains, central	348

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